

DH-SD42C212T-HN

2MP 12x Starlight PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 12x optical zoom
- · Support Triple-streams encoding
- · Max. 25/30fps@1080P
- · IVS
- · Support PoE+
- · IK10













System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, the camera provides a wide monitoring range and great detail. The camera delivers 1080P resolution at 25/30fps. The camera is equipped with smooth control, high quality image, and good protection, meeting compact size demands of video surveillance applications.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -30 °C to +60 °C (-22 °F to +140 °F) with 90% humidity. The camera complies with the IK10 Vandal Resistance impact rating.

Protection

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification						Advanced Intelligent Functions	Face Detection
Camera				Video			
Image Sensor 1/2.		1/2.8" STARVIS™ CMOS				Compression	H.265+/H.265/H.264+/H.264
Effective Pixels 19		1920(H) x 1080(V), 2 Megapixels				Streaming Capability	3 Streams
RAM/ROM 102			1024M/128M			Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)
Scanning System	Progressive				Frame Rate	Main stream: 1080P/720P(1 ~ 25/30fps)	
Electronic Shutter Speed		1/1s~1/30,000s					Sub stream1: D1/CIF(1 ~ 25/30fps)
Minimum Illumination Co		Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6					Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)
S/N Ratio Mo		More than 55dB				Bit Rate Control	CBR/VBR
IR Distance		N/A				Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR On/Off Control	1	N/A				Day/Night	Auto(ICR) / Color / B/W
IR LEDs	1	N/A				Backlight Compensation	BLC / HLC / WDR(120dB)
Lens						White Balance	Auto, ATW, Indoor, Outdoor, Manual
Focal Length	!	5.3mm~6	54mm			Gain Control	
Max. Aperture F1.6 ~		F1.6 ~ F4.	F1.6 ~ F4.4				Auto / Manual
Angle of View H: 58.		H: 58.2° ~	H: 58.2° ~ 4.8°			Noise Reduction	Ultra DNR (2D/3D)
Optical Zoom 12x		12x			Motion Detection	Support	
Focus Control Auto		Auto/Manual				Region of Interest	Support
Close Focus Distance 100		100mm~ 1000mm			Electronic Image Stabilization (EIS)	N/A	
DORI Distance						Defog	Support
			nity" of distance whic			Digital Zoom	16x
pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.				Flip	180°		
Detect Observe, Recognize		Recognize Identify			Privacy Masking	Up to 24 areas	
			_	88m(289ft)		Audio	
883m(2897ft)	353m(1158ft)	1	177m(581ft)	00111(20911)		Compression	G.711a/G.711Mu/G.726/AAC
PTZ		D 0° a	2008 II Tilt. 2	0 or 0.00 t - fl:- 1.000		Network	
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180°			Ethernet	RJ-45 (10XBase-T/100Base-TX)	
Manual Control Spec		Pan: 0.1° ~300° /s; Tilt: 0.1° ~120° /s Pan: 300° /s; Tilt: 200° /s				Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP,
Presets	:	300					DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
PTZ Mode	!	5 Pattern,	, 8 Tour, Auto Pan ,Aı	uto Scan		Interoperability	ONVIF Profile S&G, API
Speed Setup	1	Human-oriented focal Length/ speed adaptation				Streaming Method	Unicast / Multicast
Power up Action		Auto restore to previous PTZ and lens status after				Max. User Access	20 users
Idle Motion		power failure Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period				Edge Storage	NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GB
Protocol		DH-SD				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence					Management Software	Smart PSS, DSS, DMSS	
		Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly			Smart Phone	IOS, Android	
Event Trigger					Certifications		
Auto Tracking		N/A			Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	
IVS		Tripwire, Intrusion, Abandoned/Missing					UL: UL60950-1+CAN/CSA C22.2,No.60950-1

Interface

Video Interface	N/A
RS485	N/A
Audio I/O	1/1
Alarm I/O	2/1

Electrical

Power Supply	AC 24V/1.5A(±10%), PoE+(802.3at)
Power Consumption	12W

Environmental

Operating Conditions	-30°C $^{\sim}$ 60°C (-22°F $^{\sim}$ +140°F) / Less than 90% RH
Ingress Protection	N/A
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Φ198(mm)×158(mm)
Net Weight	2.3kg(5.07lb)
Gross Weight	3.3kg(7.28lb)

Ordering Information				
Туре	Part Number	Description		
	DH-SD42C212T-HN	2MP 12x Starlight PTZ Network Camera, WDR, PAL		
2MP PTZ	DH-SD42C212TN-HN	2MP 12x Starlight PTZ Network Camera, WDR, NTSC		
Camera	SD42C212T-HN	2MP 12x Starlight PTZ Network Camera, WDR, PAL		
	SD42C212TN-HN	2MP 12x Starlight PTZ Network Camera, WDR, NTSC		
Accessories	AC24V/1.5A	Power Adapter		

Accessories

Included:



AC24V/1.5A Power Adapter

Dimensions (mm)



